Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan C Bachelor General Engineering Science (English program) (GESBS) Specialisation Mechanical Engineering, Focus Biomechanics

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective Specialisation Elective Focus Elective Compulsory Interdisciplinary complement

Compulsory Compulsory

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/w	Semester 3	FormHrs/wl	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk
1	Chemistry (GES)		Physics for Engineers (GES) (part 2))	Technical Thermodynamics II		Mechanical Engineering: Design (pa	ırt 2)	Introduction to Control Systems		Foundations of Management	
2	Chemistry I	VL 2	Physics-Lab for ET/IIW-Engineers	PR 1	Technical Thermodynamics II	VL 2	Team Project Design Methodology	POL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 4
3	Chemistry II	VL 2	Fundamentals of Mechanical Engine	ering	Technical Thermodynamics II	HÜ 1	Mechanical Design Project II	TT 3	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4	Chemistry II	HÜ 1 HÜ 1	Design	9	Technical Thermodynamics II	UE 1	Fundamentals of Materials Science	(maré O)				
	- Onemistry ii	110 1	Fundamentals of Mechanical	VL 2			Fundamentals of Materials Science I					
5			Engineering Design				Tandamentals of Materials Ocionec i	VL 2				
6			Fundamentals of Mechanical Engineering Design	HÜ 2			Signals and Systems					
7	Linear Algebra		Engineering Design		Computer Engineering		Signals and Systems	VL 3	Measurement Technology for Mechan	nical and	BIO I: Implants and Testing (part 2)	
8	Linear Algebra	VL 4			Computer Engineering	VL 3	Signals and Systems	HÜ 1	Process Engineers		Experimental Methods in	2
9	Linear Algebra	HÜ 2	Technical Thermodynamics I		Computer Engineering	UE 1			Measurement Technology for Mechanical and Process Engineers	VL 2	Biomechanics	
	Linear Algebra	UE 2	Technical Thermodynamics I	VL 2					Measurement Technology for	HÜ 1	MED II Madical Parisa II (wast 0)	
10			Technical Thermodynamics I	HÜ 1					Mechanical and Process Engineers		MED II: Medical Basics II (part 2) Introduction to Physiology	VL 2
11			Technical Thermodynamics I	UE 1					Practical Course: Measurement and	PR 2	introduction to 1 hystology	VL Z
12							Fluid Dynamics		Control Systems			
13					Mathematics III		Fluid Mechanics	VL 3	BIO I: Implants and Testing (part 1)		Bachelor Thesis	
14					Analysis III	VL 2	Fluid Mechanics	HÜ 1	Implants and Fracture Healing	VL 2		
15	Electrical Engineering I		Mathematical Analysis		Analysis III	UE 1						
	Electrical Engineering I	VL 3	Mathematical Analysis	VL 4	Analysis III	HÜ 1						
16	Electrical Engineering I	UE 2	Mathematical Analysis	HÜ 2	Differential Equations 1 Differential Equations 1	VL 2 UE 1			MED II: Medical Basics II (part 1)	VL 2		
17			Mathematical Analysis	UE 2	Differential Equations 1	HÜ 1			Introduction to Biochemistry and Molecular Biology	VL 2		
18							Mechanics IV (Kinetics II, Oscillation					
19							Analytical Mechanics, Multibody Sys		Numerical Mathematics I			
20							Mechanics IV Mechanics IV	VL 3 UE 2	Numerical Mathematics I	VL 2		
21	Mechanics I (GES)				Mechanics III (GES)		Mechanics IV	HÜ 1	Numerical Mathematics I	UE 2		
_	Mechanics I	VL 2			Mechanics III	HÜ 1						
22	Mechanics I	HÜ 3			Mechanics III	UE 2						
23			Electrical Engineering II		Mechanics III	VL 3						
24			Electrical Engineering II Electrical Engineering II	VL 3 UE 2			MED I: Medical Basics I					
25			Electrical Engineering ii	OE 2			Introduction to Radiology and	VL 2	Heat Transfer			
26							Radiation Therapy Introduction to Anatomy	VL 2	Heat Transfer	VL 3		
27	Physics for Engineers (GES) (part 1)			Mechanical Engineering: Design (pa	art 1)			Heat Transfer	HÜ 1		
	Physics for Engineers	VL 2			Embodiment Design and 3D-CAD	VL 2						
28	Physics for Engineers	UE 1			Mechanical Design Project I	TT 3						
29			Mechanics II (GES)									
30			Mechanics II Mechanics II	VL 2 HÜ 2	Fundamentals of Materials Science		Advanced Materials					
31			Wicorialilos II	110 2	Fundamentals of Materials Science		Advanced Materials Characterization					
32	†				Physical and Chemical Basics of Materials Science	VL 2	Advanced Materials Design Advanced Materials Design	VL 2 HÜ 2				
33	†						Advanced Materials Design	110 2				
34												

Programming in C		
Programming in C VL	1	1
Programming in C PR	1	1
Pr	ogramming in C VL	ogramming in C VL

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.